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A protocol test generation procedure

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Abstract

A procedure presented here generates test sequences for checking the conformity of an implementation to the control portion of a protocol specification, which is modeled as a deterministic finite-state machine (FSM). A test sequence generated by the procedure given here tours all state transitions and uses a unique signature for each state, called the Unique Input/Output (UIO) sequence. A UIO sequence for a state is an input/output behavior that is not exhibited by any other state. An algorithm is presented for generating a minimum-length UIO sequence, should it exist, for a given state. UIO sequences may not exist for some states.



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Keywords

Testing; Conformance Testing; Machine Identification; State Tours; Unique

Input/Output Sequences

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